



Product: [1855ENF](#)

75 Ohm SDI Coax, Mini RG-59, 22 AWG Str BC, 90% TC Braid + Foil, LSZH Jkt

Product Description

75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid Bare Copper Conductor, PE Insulation, 90% Tinned Copper Braid + Foil Shield, LSZH Jacket, Dca.

Technical Specifications

Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The cable is UV-resistant and suitable for indoor and outdoor use
------------------------	--

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Construction n x D	Nominal Diameter	No. of Coax
23	Stranded	BC - Bare Copper	7x0.23 mm	0.65 mm	1

Conductor Count:	1
------------------	---

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	2.9 mm	0.15 mm

Outer Shield

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	100%	2 mm		
Braid	2	Tinned Copper (TC)	90%		3.45 mm	5%

Outer Jacket

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.45 mm	0.2 mm

Table Notes:	According to EN 50290-2-20
--------------	----------------------------

Electrical Characteristics

Conductor DCR

Max. Shield DCR
17 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
53 pF/m	2 pF/m

Min Insulation Resistance:	10000 MOhm*km
----------------------------	---------------

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.2 dB/100m

3.6 MHz	2.2 dB/100m
5 MHz	2.5 dB/100m
6 MHz	2.8 dB/100m
7 MHz	3.0 dB/100m
10 MHz	3.6 dB/100m
12 MHz	3.9 dB/100m
25 MHz	5.6 dB/100m
67.5 MHz	9.2 dB/100m
71.5 MHz	9.5 dB/100m
88.5 MHz	10.5 dB/100m
100 MHz	11.2 dB/100m
135 MHz	13.0 dB/100m
143 MHz	13.4 dB/100m
180 MHz	15.2 dB/100m
270 MHz	18.7 dB/100m
360 MHz	21.6 dB/100m
540 MHz	26.8 dB/100m
720 MHz	31.1 dB/100m
750 MHz	31.8 dB/100m
1000 MHz	37.1 dB/100m
1500 MHz	46.0 dB/100m
2000 MHz	53.9 dB/100m
2250 MHz	57.5 dB/100m
2500 MHz	61.0 dB/100m
3000 MHz	67.4 dB/100m
4000 MHz	79.2 dB/100m
4500 MHz	84.7 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
400 ns/100m	82%	2%

High Frequency

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB

Screening

Frequency [MHz]	Min. Screening Attenuation After Flexing
30 - 1000 MHz	65 dB
1000 - 2000 MHz	65 dB
2000 - 3000 MHz	65 dB
3000 - 4500 MHz	65 dB

Transfer Impedance

Frequency [MHz]
5-30 MHz

Voltage

Voltage Rating [V]
50 V AC
75 V DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-30°C To +70°C
Operating Temp Range:	-30°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	160 N
Min Bend Radius (W/o Pulling Strength):	45 mm

Standards

CPR Euroclass:	Eca
GENELEC Compliance:	EN 50117-1 and EN 50290-2-20
RG Type:	Mini 59

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor - Euroclass Cca
----------------------	--------------------------------

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	CEI 20-35/1
IEC 60754-1 - Halogen Amount:	Zero
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Part Number

Variants

Item #	Color	Put-Up Type	Length	EAN
1855ENF.01305	Black	Reel	305 m	8719605160263
1855ENF.01500	Black	Reel	500 m	8719605154835
1855ENF.00500	Green	Reel	500 m	8719605148247

History

Update and Revision:	Revision Number: 0.75 Revision Date: 09-08-2021
----------------------	---

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.